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Bibliography of Electron Microscopy

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Bibliography of Electron Microscopy

by

Claire Marton, Samuel Sass, Max Swerdlow
Alan VanBronkhorst, and Harold Meryman



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Foreword

Since publication of previous bibliographies^{1 2} the electron microscope has been further developed and applied to new and expanding fields of research and industrial technology. Because of this fact many users of the instrument both here and abroad urged us repeatedly to resume our effort to publish an up-to-date and convenient compilation of the literature dealing with electron microscopy.

For the convenience of the user the titles have been grouped into the following broad categories: Books, survey articles, instrumentation, electron optics, related instruments, and applications. Within each group the arrangement is chronological, and within each year alphabetical by author. Further breakdown of grouping into the various fields of application did not seem desirable because the interdependent nature of the many phases of applied electron microscopy would make such groups of limited aid at best. The authors believe that the individual worker in a particular field is best qualified to select those references that best satisfy his needs.

All references are consecutively numbered, and an alphabetical author index refers to these numbers. It is hoped that this index will greatly increase the usefulness of the bibliography.

This bibliography is intended to contain only those papers that were published in scientific periodicals prior to January 1, 1950. Semiscientific, popular accounts, and patent literature have been omitted. Only those papers dealing with general electron optics that have a direct bearing on electron microscopy have been included. Electron diffraction work has in general been omitted, but where it is combined with studies in electron microscopy, it has been carried along.

Following the practice of Chemical Abstracts and Science Abstracts, the titles of all of the foreign language papers have been translated into English. The abbreviations of journals are, in general, those used by Chemical Abstracts. For journals that Chemical Abstracts does not include, the abbreviations are either those used by Science Abstracts, or they are so obvious that the journal can be easily recognized.

¹ Marton, C. and Sass, S. A bibliography of electron microscopy. I, II, III. *J. Applied Phys.* **14**, 522-531 (1943); **15**, 575-579 (1944); **16**, 373-378 (1945).

² Rathbun, M. E., Eastwood, M. J., and Arnold, O. M. Supplementary bibliography of electron microscopy. *J. Applied Phys.* **17**, 759-762 (1946).

While every effort has been made to prepare this bibliography as completely and accurately as possible, that aim may not have been always achieved, and the authors invite the users of this bibliography to notify them of any omissions or errors.

The generous assistance of Dr. L. Marton, especially in making available his extensive files and reprint library, is gratefully acknowledged. The authors also thank Mrs. M. Cushing, Miss M. Krauss, and Miss P. Ashley for clerical help.

CLAIRE MARTON, SAMUEL SASS, MAX SWERDLOW,
ALAN VANBRONKHORST, HAROLD MERYMAN.

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Bibliography of Electron Microscopy

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Claire Marton, Samuel Sass,¹ Max Swerdlow,
Alan VanBronkhorst, and Harold Meryman²

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² Naval Medical Research Institute, Bethesda, Md.

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